

Title (en)  
SYNTHESIS AND APPLICATION OF PHOSPHATASE DEGRADER

Title (de)  
SYNTHESE UND ANWENDUNG VON PHOSPHATASEABBAUER

Title (fr)  
SYNTHÈSE ET UTILISATION D'AGENT DE DÉGRADATION DE PHOSPHATASE

Publication  
**EP 4368614 A1 20240515 (EN)**

Application  
**EP 22836982 A 20220706**

Priority  
• CN 202110769589 A 20210707  
• CN 2022104221 W 20220706

Abstract (en)  
A synthesis and an application of a phosphatase degrader, belonging to the field of chemical medicine. The phosphatase degrader is a compound represented by formula I, or a salt thereof, or a deuterated compound thereof, or a stereoisomer thereof, or a solvate thereof, or a hydrate thereof, or a prodrug thereof. The compound can be used as a phosphatase degrader, especially as an SHP2 protein degrader, can treat malignant diseases such as tumors, and has good application prospects.

IPC 8 full level  
**C07D 239/48** (2006.01); **A61P 35/00** (2006.01); **C07D 241/26** (2006.01); **C07D 249/14** (2006.01)

CPC (source: CN EP KR)  
**A61K 31/497** (2013.01 - KR); **A61K 31/501** (2013.01 - KR); **A61K 38/05** (2013.01 - EP); **A61P 35/00** (2018.01 - CN KR);  
**A61P 35/02** (2018.01 - CN KR); **C07D 401/14** (2013.01 - CN EP KR); **C07D 409/14** (2013.01 - EP); **C07D 413/14** (2013.01 - CN EP);  
**C07D 417/14** (2013.01 - CN EP KR); **C07D 471/04** (2013.01 - CN EP); **C07D 471/08** (2013.01 - CN); **C07D 471/10** (2013.01 - CN EP);  
**C07D 487/04** (2013.01 - CN EP); **C07D 487/08** (2013.01 - CN EP KR); **C07D 487/10** (2013.01 - CN EP KR); **C07D 491/107** (2013.01 - CN EP KR);  
**C07D 519/00** (2013.01 - CN EP); **C07K 5/06017** (2013.01 - EP); **C07K 5/06034** (2013.01 - CN EP); **A61K 38/00** (2013.01 - CN)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4368614 A1 20240515**; AU 2022306911 A1 20240222; CA 3224155 A1 20230112; CN 115594666 A 20230113; CN 115594666 B 20240531;  
KR 20240034212 A 20240313; WO 2023280237 A1 20230112

DOCDB simple family (application)  
**EP 22836982 A 20220706**; AU 2022306911 A 20220706; CA 3224155 A 20220706; CN 2022104221 W 20220706;  
CN 202210790357 A 20220706; KR 20247004571 A 20220706